

## **Indian Head, Bldg. 1600 Telecommunications Scope of Work**

### **Statement of Services Required:**

The scope of work is to install electrical outlets, telecommunications cabling (data) and associated equipment serving existing clinic:

1. Inside electrical room 152A:
  - a. Provide wall mounted 12 strand single mode fiber termination with splice tray above the existing and to match existing Corning single cassette housing termination. Install 12 strand single mode fiber from termination to 12 port single mode fiber optic patch panel in communication room 223.
  - b. Inside existing 50A main circuit breaker panel "ERP", 120/208 V, 3 phase, 4 wire, space # 14, install 30A, single pole circuit breaker serving new 30A twist lock receptacle.
2. Inside communication room 223:
  - a. Install 3/4" depth x 8' high fire rated plywood backboard on existing walls.
  - b. Rotate existing equipment rack 90 degree to perpendicular existing wall which provides 3 feet working clearance both in front and back of the rack in accordance with UFC 3-580-01, Section 2-4.4.3; and National Electrical Code, Table 110.26(A)(1).
  - c. Provide two-post equipment rack 19" W x 84" H with vertical cable management in line with existing rack for Government Furnished Government Installed electronic networking equipment. Run 1#6 AWG copper ground conductor from equipment rack to existing telecommunications grounding bus (TGB) located inside communication room.
  - d. Provide one 12 port single mode fiber optic patch panel with adaptors (backbone) and one 48 port CAT 6 copper patch panel in new equipment rack. Install twelve CAT 6 cables from 48 port patch panel to new four-post equipment rack located inside server room 135.
  - e. Provide two 20A duplex receptacles, NEMA 5-20R above new two post equipment and run 2-#12 AWG copper conductors with 1# 10 AWG copper ground in 1/2" EMT to existing panel "ERP", 20A single pole spare circuit breaker.
3. Inside server room 135:
  - a. Provide four-post equipment rack 20" W x 84" H X 29" D with vertical cable management for Government Furnished Government Installed servers. Run 1#6 AWG copper ground conductor from equipment rack to existing telecommunications main grounding bus (TMGB) located inside server room. Coordinate clinic IT department for exact location of equipment rack.

Attachment B

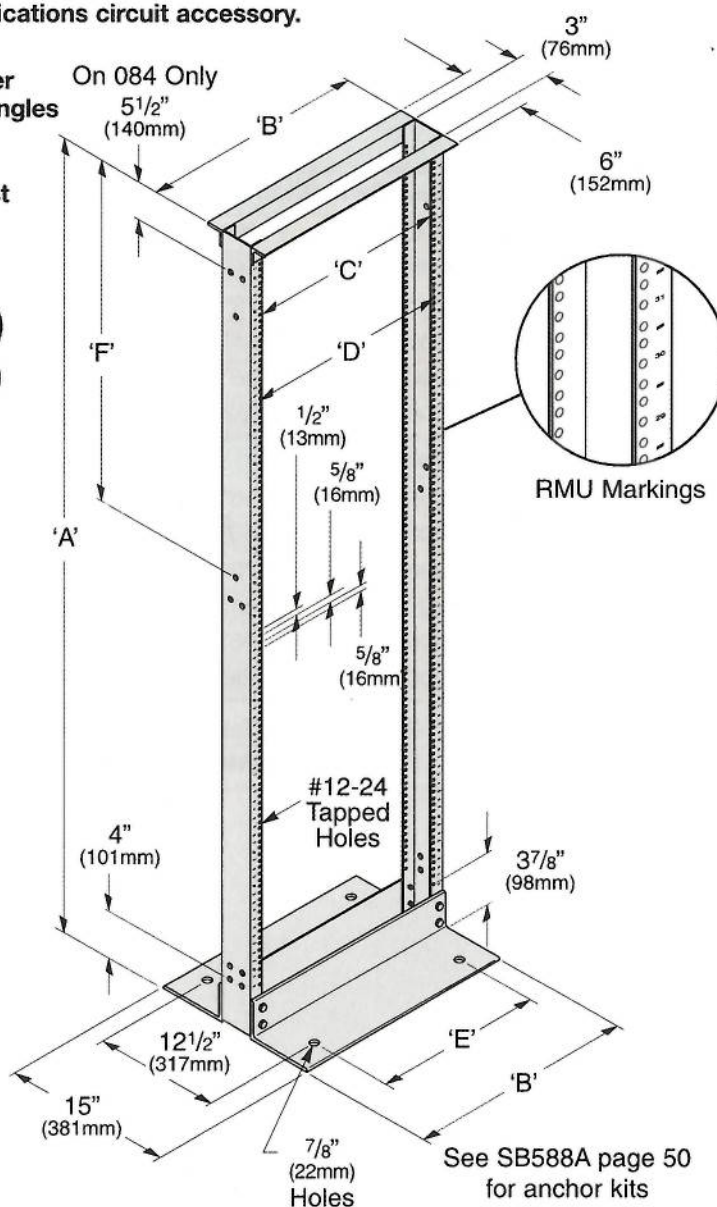
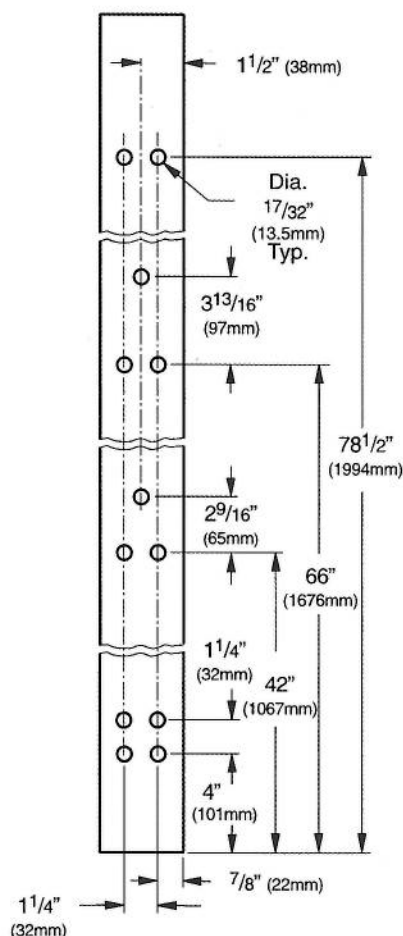
- b. Provide one 48 port CAT 6 copper patch panel in new four post equipment rack.
- c. Provide 30A, NEMA L5-30R twist-lock receptacle and run 2-#10 AWG copper conductors with 1#10 copper ground in 1/2" EMT to existing panel "ERP", new 30A single pole circuit breaker. Coordinate receptacle location with four-post equipment rack.

## Two-Post Network Equipment Rack

### 3" Uprights, 19" & 23" Panel Mounting, Customer Premise

- Universal junction hole pattern matches most manufacturers racks.
- #12-24 panel mounting holes.
- Conformance to EIA/ECA-310-E.
- Load Rating: 1200 Lbs. (544kg) weight capacity when evenly distributed for the height of the rack.
- Permanently stamped rack mount unit (RMU) markings included.
- Packaged unassembled in protective carton suitable for parcel shipment.
- Assembles in about ten (10) minutes using standard hand tools.
- Includes thirty (30) dog point combo head (Phillips and flat blade) mounting screws.
- Double sided universal ( $\frac{5}{8}$ " (16mm),  $\frac{5}{8}$ " (16mm),  $\frac{1}{2}$ " (13mm)) mounting spacing.
- Twin  $1\frac{1}{2}$ " (38mm) x  $1\frac{1}{2}$ " (38mm) top angles for rigidity.
- Tapped assembly holes eliminate the need for nuts and simplifies assembly and squaring.
- UL Listed (File No. E171936) as a communications circuit accessory.
- Material: 6061-T6 aluminum alloy
- Finish \_\_\_\_: Brushed (AL) uprights with Silver Powder Coated top & bottom angles  
Telco Gray Powder Coat (TG) or Flat Black Powder Coat (FB)  
Other finishes are available upon request

#### Junction Hole Pattern for 84 tall rails



See SB588A page 50  
for anchor kits

Continued on page 13.



## Two-Post Network Equipment Rack

3" Uprights, 19" & 23" Panel Mounting, Customer Premise

	Dimensions			
	19" (482mm) Rack Width		23" (594mm) Rack Width	
	In.	(mm)	In.	(mm)
'A' Overall Height	36" - 108"	(914 - 2743)	36" - 108"	(914 - 2743)
'B' Overall Width	20 <sup>5</sup> / <sub>16</sub> "	(516)	24 <sup>5</sup> / <sub>16</sub> "	(617)
'C' Panel Mounting	18 <sup>5</sup> / <sub>16</sub> "	(465)	22 <sup>5</sup> / <sub>16</sub> "	(567)
'D' Usable Inside Width	17 <sup>3</sup> / <sub>4</sub> "	(451)	21 <sup>3</sup> / <sub>4</sub> "	(552)
'E' Base Anchor Spacing	16"	(406)	20"	(508)

Universal Spacing [<sup>5</sup>/<sub>8</sub>" (16mm), <sup>5</sup>/<sub>8</sub>" (16mm), <sup>1</sup>/<sub>2</sub>" (13mm)]

Part Number	'A' Height		'F' Spacing		Mounting Spaces	Shipping Weight	
	In.	(mm)	In.	(mm)		Lbs.	(kg)
19" (482mm) Rack Width							
SB556036XU	36"	(914)	6"	(152)	17	22.0	(10.0)
SB556048XU	48"	(1219)	37/16"	(87)	24	24.0	(10.9)
SB556072XU	72"	(1829)	277/16"	(697)	38	27.5	(12.5)
SB556084XU	84"	(2133)	397/16"	(1001)	45	30.0	(13.6)
SB556096XU	96"	(2438)	517/16"	(1306)	51	31.5	(14.3)
SB556108XU	108"	(2743)	543/16"	(1376)	58	33.5	(15.2)
23" (584mm) Rack Width							
SB558036XU	36"	(914)	6"	(152)	17	24.5	(11.1)
SB558048XU	48"	(1219)	37/16"	(87)	24	26.5	(12.0)
SB558072XU	72"	(1829)	277/16"	(697)	38	30.0	(13.6)
SB558084XU	84"	(2133)	397/16"	(1001)	45	32.0	(14.5)
SB558096XU	96"	(2438)	517/16"	(1306)	51	34.0	(15.4)
SB558108XU	108"	(2743)	543/16"	(1376)	58	36.0	(16.8)

Finish \_\_\_\_ : Brushed (AL), Telco Gray Powder Coat (TG) or  
Flat Black Powder Coat (FB)

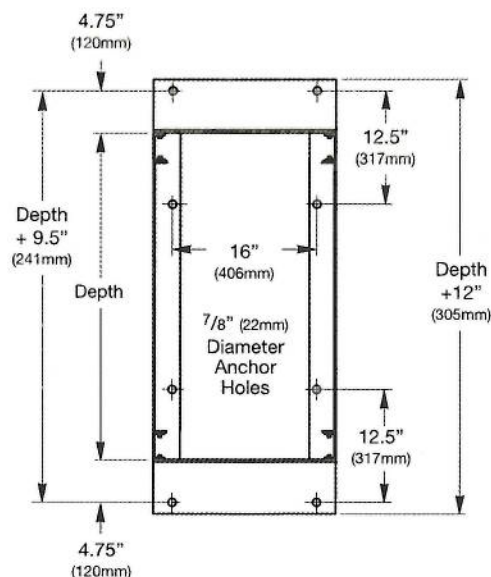


FB & AL are popular Bee List items

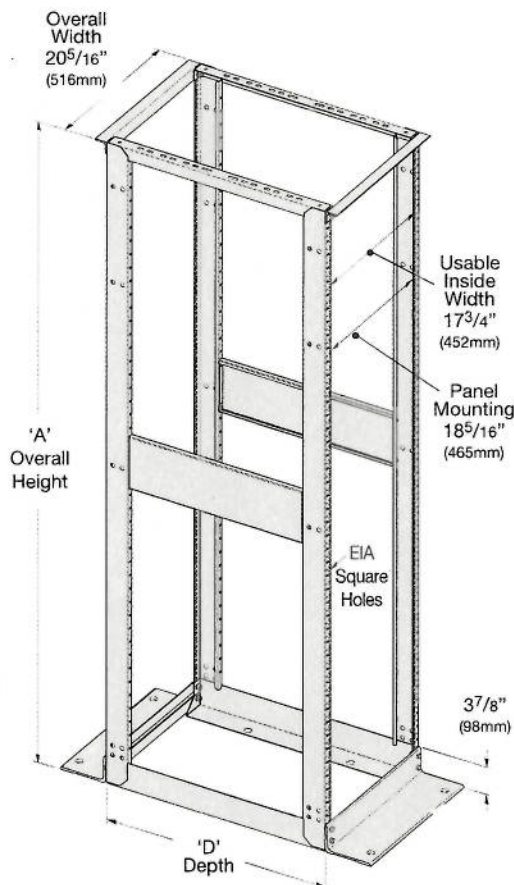
## Four Post Server Rack - Fixed Depth

### 19" Panel Mounting

- Open 4-post frame with 19" EIA square hole 14 gauge steel mounting rails designed to provide nearly 360 degrees of accessibility and unrestricted heat flow.
- Available in 84" (2133mm) height, 45 rack mount units (RMU).
- 'C' shaped EIA square hole universal rails accept M6, #10-32, or #12-24 cage nuts.
- Permanently stamped rack mount unit (RMU) markings included.
- Load rating: 1000 lbs. (459kg) capacity, evenly distributed along rack height.
- Ships unassembled in protective carton suitable for parcel shipment.
- Assembles in about twenty (20) minutes using standard hand tools.
- UL Listed (File No. E171936) as a communications circuit accessory.
- Conformance to EIA/ECA-310-E.
- Top depth rails are pre-drilled for runway attachment.
- SB836 4-Post Kit includes: (4) Mounting Rails, (2) Top Depth Rails, (2) Bottom Depth Rails, (2) Base Angles, (2) Top Angles, (2) Center Braces, (30) cage nuts, (30) #12-24 screws, and installation instructions.
- Finishes: **Flat Black Powder Coat (FB) or Telco Gray Powder Coat (TG)**  
Other finishes are available upon request



For Mounting Rail  
Junction Hole  
Pattern  
on 84" tall rails  
See page 12.



### 19" EIA Mounting Square Hole Rail Design

Universal Spacing [ $\frac{5}{8}$ " (16mm),  $\frac{5}{8}$ " (16mm),  $\frac{1}{2}$ " (13mm)]

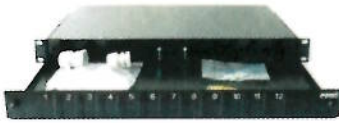
Part Number	'A' Height		'W' Overall Width		'D' Depth		Shipping Weight	
	In.	(mm)	In.	(mm)	In.	(mm)	Lbs.	(kg)
SB8361908418	84"	(2133)	20 $\frac{5}{16}$ "	(516)	18"	(457)	58.0	(26.3)
SB8361908424	84"	(2133)	20 $\frac{5}{16}$ "	(516)	24"	(609)	62.0	(28.1)
✓ SB8361908429	84"	(2133)	20 $\frac{5}{16}$ "	(516)	29"	(736)	67.7	(30.7)
✓ SB8361908436	84"	(2133)	20 $\frac{5}{16}$ "	(516)	36"	(914)	70.0	(31.7)

✓ FB is a popular item





# 1206138-8



Fiber Optic Termination Panel, 1U, 19 in, accepts 12x SC duplex flanged adaptor (not included), black

## Product Classification

Portfolio	NETCONNECT®
Product Type	Fiber patch panel
Regional Availability	EMEA

## Construction Materials

Finish	Powder coated
Material Type	Aluminum

## Dimensions

Height	44.45 mm   1.75 in
Width	482.60 mm   19.00 in

## General Specifications

Rack Units	1.0
Body Style	Symmetrical
Color	Black
Color, front	Black
Includes	Mounting hardware
Interface Feature, front	Standard
Interface, front	SC
Package Quantity	1
Rack Type	EIA 19 in
Total Ports, quantity	12

## Regulatory Compliance/Certifications

Agency
RoHS 2011/65/EU

Classification
Compliant



Product Data

page 1 of 1  
January 18, 2019





# Product Specifications

COMMScope®



760152579 || 360MR1100E-GS3-2U48

SYSTIMAX 360™ GigaSPEED XL® 1100GS3 Evolve Category 6 U/UTP Patch Panel, 48 port

## Dimensions

Depth, with cable management	6.50 in
Diameter Over Dielectric, maximum	1.168 mm   0.046 in
Diameter Over Dielectric, minimum	0.762 mm   0.030 in
Height	88.90 mm   3.50 in
Weight	1.63 kg   3.60 lb
Width	482.60 mm   19.00 in

## Electrical Specifications

ANSI/TIA Category	6
Current Rating	1.5 A @ 20 °C 1.5 A @ 68 °F
Dielectric Withstand Voltage, RMS, conductive surface	1500 Vac @ 60 Hz
Dielectric Withstand Voltage, RMS, contact-to-contact	1000 Vac @ 60 Hz
Insulation Resistance, minimum	500 MOhm

## Environmental Specifications

Flammability Rating	UL 94 V-0
Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Relative Humidity	Up to 95%, non-condensing
Safety Standard	cUL   UL
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

## General Specifications

Intelligence Type	iPatch® ready
Total Ports, quantity	48
Cable Type	U/UTP (unshielded)
Product Type	Panel
Brand	Evolve   GigaSPEED XL®   SYSTIMAX 360™   SYSTIMAX®
Color	Cool gray   Satin chrome
Modules, quantity	8
Package Quantity	1
Rack Type	EIA 19 in
Rack Units	2

## Mechanical Specifications

Panel Style	Straight
Conductor Gauge, solid	22 AWG   24 AWG
Conductor Gauge, stranded	22 AWG   24 AWG
Conductor Type	Solid   Stranded (7 strands)

Product Data

# Product Specifications

COMMScope®

760152579 | 360-1111-1000-EGS3-2U48

Material Type	High-impact, flame retardant, thermoplastic   Powder-coated steel
Outlet/Module Contact Plating	Precious metals
Plug Insertion Life, minimum	750 times
Plug Insertion Life, test plug	IEC 60603-7 compliant plug
Plug Retention Force, minimum	30 lbf   133 N
Rear Termination Contact Plating	Nickel
Rear Termination Type	IDC
Wiring	T568A   T568B

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system





CORNING



Optical Communications  
Products



Home / Fiber Optic Hardware / Wall-Mountable Hardware / SCH Hardware / SCH Housings / Single Cassette Housing (SCH)

## Single Cassette Housing (SCH)



Corning single-cassette housing is a cost-effective option for storage, protection and termination of optical fiber cables in applications with minimal mounting space. The housing accepts standard LANscape® solution closet connector housing (CCH) cassettes, and offers protection for the fiber cable and connectors for indoor wall-mountable installations.

This compact unit is optimized for use in locations such as Box-in-a-Box applications, building entrances, terminals, wiring closets, open office and other areas where space is a premium. The durable black metal housing can be used with either CCH pigtailed splice cassettes, standard CCH splice cassettes or CCH field termination cassettes with Unicams®, and be utilized for splice management, cross-connector or both for up to 24 single-fiber heat-shrink splices or 2 ribbon heat-shrink splices, if so desired.

### Choose your specification

Mounting Type  
Wall-mountable  
Housing Color  
Black





CORNING

**Products**

Optical Communications

Products

**Product Number**

SCH-01C

**Product Name**

Single Cassette Housing, Wall-mountable, holds one CCH Splice Cassette, black

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